

Notice of Allowability

Application No.

10/674,315

Examiner

Thomas R. Peeso

Applicant(s)

TEHEE, STANLEY W.

Art Unit

2132

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application papers filed.
2. ☒ The allowed claim(s) is/are 1-20 (renumbered).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 28Mar2005
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

THOMAS R. PEESO
PRIMARY EXAMINER

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Applicant has claimed uniquely distinct features in the instant invention which are not found in the prior art, either singularly or in combination.

In one embodiment, the supervisory and control network 108 has a resident secure connection software, such as Terminal ServicesTM by Microsoft, web-based secure protocols, or other similar secure software, to allow secure customer remote access to the supervisory and control network 108.

The distributed communications system 106 relays messages and signals from the power management controller 104 to the wind turbine generators 102. For example, the power management controller 104 sends a message indicating the required ratio of reactive (VARs) and real power (Watts) for each wind turbine generator 102 to produce. The distributed communications system 106 may consist of fiber optic lines and modems connected between the substation and each wind turbine generator 102. The distributed communications system 106 transmits the messages and signals from the power management controller 104 with negligible delay, typically less than 120 milliseconds.

In one embodiment, located in each wind turbine generator 102 is an induction generator that couples to a power electronics package 101. The solid state power converter 101 adjusts the VAR output of the induction generator.

The wind turbine generator 102 either produces or consumes VARs depending on the signal sent to the solid state power converter 101 from the power management controller 104. The VARs that each wind turbine generator

102 produces or consumes flows through the point of interconnect 110 via the wind park collection system (not shown). A monitoring device at the point of interconnect 110 detects the sum of watts and VARs that the group of wind turbine generator 102 within the park are producing or consuming. The power management controller 104 controls parameters at the point of interconnect 110, such as wind park voltage, reactive power, power factor, or other similar power characteristics. Each of these parameters is controllable and established by a set point value in or accessible by the power management controller 104.

In one embodiment, the power management controller 104 executes software that presents a network user interface that allows the plant operators to control these parameters, either at the substation 120 or at the operations and maintenance (O & M) building. In one embodiment, the power management controller 104 has resident secure connection software to allow secure customer remote access, via the supervisory and control network 108 and network connection 112, to a web page corresponding to the IP address of the power management controller 104. The network user interface may be presented via the secure services software and a JAVATM based web browser integrated into the companies IP network.

These features are not found or suggested in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should

Art Unit: 2132

preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas R. Peeso whose telephone number is 571 272-3809. The examiner can normally be reached on Mon.-Fri, 7:00 a.m. to 3:30 p.m. The central fax number for the office is 571 273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron, can be reached on 571 272-3799.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas R. Peeso
Primary Examiner

2 December 2006